

**Michigan Department of Environmental Quality
Office of Drinking Water and Municipal Assistance
Counter Terrorism Technical Assistance and Training Grant
Water Sector Security Program Activity Report**

November 22, 2013

I. Summary

The following is the activity report of Michigan Department of Environmental Quality (MDEQ) Office of Drinking Water and Municipal Assistance (ODWMA) Water Security and Emergency Management Program. The program is supported by the U. S. Environmental Protection Agency (US EPA) Counter Terrorism Technical Assistance and Training Grant. This report is for the period from January 1, 2013 through October 31, 2013.

As a result of an organizational change, the Water Sector Security and Emergency Management Coordinator (Coordinator) was assigned full time to the funding of the Counter Terrorism grant effective October 1, 2012, and was no longer responsible for the Operator Training and Certification program. The plan was to expend all funds from the Counterterrorism grant with the Coordinator and a contractor to perform Tabletop Exercises (TTXs). Additional Water Security and Emergency Management activities were performed by MDEQ staff on an individual basis.

II. Water Sector

The Water Sector is one of the 18 sectors described in the U. S. Department of Homeland Security (DHS) National Response Framework (NRF). The Coordinator participates in numerous Water Sector Security and Emergency Management activities. Those activities include:

- A. Chair the Water Sector on the Michigan State Police (MSP) Michigan Infrastructure Coordination Committee (MICC) which includes both public and private infrastructure representatives.
- B. Co-Chair of the American Water Works Association (AWWA) Michigan Section Water System Security and Emergency Management Committee (WSSEMC).
- C. Member of the MDEQ Emergency Management Support Team (EMST).
- D. Secretary of the Michigan WARN (Water and Wastewater Agency Response Network), an internet based 24/7 utilities helping utilities system.
- E. Maintained the Internet web page for Water and Wastewater Security.
- F. Requested US EPA extend the Counterterrorism grant period from 30 September 2012, by 15 months to 31 December 2013 in consideration of the work plan for the performance of tabletop exercises (TTXs) using a contractor.
- G. Developed a RFP (Request for Proposals) for the performance of TTXs at Water Sector facilities on a population priority basis.
- H. Established and chaired a Joint Evaluation Committee (JEC) consisting of 3 MDEQ personnel as well as a Department of Management and Budget (DTMB) buyer and selected TTX contractor.
- I. Support the improved use of technology, e.g., Internet web sites, digital media, and real-time water quality monitoring in natural waters as well as in public water system (PWS) distribution systems.

III. Michigan Water and Wastewater Agency Response Network (MI WARN)

The Coordinator acted as secretary of the MI WARN Steering Committee as it enhances its web site and provides more services to the utilities.

IV. Michigan Infrastructure Coordination Committee (MICC)

The Coordinator is a member of the Michigan Infrastructure Coordination Committee (MICC) which is coordinated by the Emergency Management and Homeland Security Division (EMHSD) of the Michigan State Police (MSP). Inasmuch as 85 % of critical infrastructure is owned by the private sector, the MICC is comprised of representatives from the private as well as the public sectors. Protective Security Advisors (PSA's) from the US Department of Homeland Security (DHS) also participate in the MICC.

V. MDEQ Emergency Management Support Team

1. The Coordinator is a member of the MDEQ Emergency Management Support Team (EMST) and participates in routine EMST meetings. The EMST coordinates the MDEQ emergency management responsibilities. The EMST coordinates priorities and activities with the MSP and its Emergency Management and Homeland Security Division (EMHSD), and Michigan Department of Technology and Management and Budget. The ODWMA routinely updates its Emergency Management Plan and works with the EMST in the preparation of the DEQ Continuity of Operations Plan (COOP) and Continuity of Government (COG) plan.

2. The Coordinator advises all public water and wastewater systems have the Michigan Army National Guard (MANG) at Ft. Custer 51st Civil Support Team (CST), with their mobile laboratory and communications vehicles, listed in their Emergency Response Plans (ERP's) and Contingency Plans (CP's).

VI. Threat Advisory Notification System (TANS)

1. A Threat Advisory Notification System (TANS) has been developed using the email addresses. Articles in the American Water Works Association Michigan Section Water Works News have solicited Internet based email addresses from PWS. Internet email addresses have also been solicited from wastewater systems in the Michigan Water Environment Association (MWEA) Water Matters publication. The TANS list includes 537 email addresses of PWS and wastewater systems and local county health department officials.
2. The following TANS notice were sent in 2013:
 - a. TANS #68: To Forward the MDEQ Tabletop Exercise (TTX) Contract Announcement, January 15, 2013
 - b. TANS #69: To Announce Water Sector Intermediate (ICS-300) and Advanced (ICS400) Incident Command System Training/Certification, February 26-28, 2013 and March 13-14, 2013
 - c. TANS #70: To Forward MDEQ Water and Wastewater Asset Management Seminar flyer, and the ICS 300-400 training fact sheet (refer to TANS #69 dated 01/25/13) (2/12/13)
 - d. TANS # 71: MDEQ Water Sector (public drinking water and wastewater systems) Table Top Exercises (TTX's) (8/5/13)
 - e. TANS # 72: NACWA Chlorine Gas Article and Interactive Map (10/21/13)

VII. MI Section: American Water Works Association: Water System Security and Emergency Management Committee (WSSEMC)

A. The Coordinator is co-chair of the Michigan Section of the American Water Works Association Water System Security and Emergency Management Committee (WSSEMC). The Coordinator, as co-chair of the committee, has shifted the water security program to include emergency management as part of all hazards systems management. The Coordinator chaired the ad hoc annual Water Security Summit

conference committee which included a speaker from the City of Joplin, MO and the City of Nashville which described an EF 5 tornado and a once in 500 year flood which were well received. The WSSEMC held the eighth annual Water Security Summit (WSS) on 6/4/13 and had local and national speakers and was generally evaluated as a successful conference. Presentations were subsequently placed on the ODWMA Water Sector Security web page.

B. The WSSEMC has 5 goals:

1. Emphasize Contamination Warning Systems
2. Emphasize Table Top Exercises
3. Attend AWWA national Water Security Congress: water utility and Coordinator
4. Hold annual MI Section Water Security Summit conference
5. Develop Security Program Measurables

C. The following are synopses of ODWMA articles prepared by the Coordinator that appeared in the American Water Works Association (AWWA) MI Section Water Works News (WWN) quarterly publication:

1. February 2013 WWN: TTX contract proposed; hospitals emergency water supply planning, MiWARN, and all hazards: ice storm.
2. May 2013 WWN: TTX contractor announced; Water Security Summit 'Superstorms and All Hazards' agenda announced; all hazards: improvised explosive device (IED) destroys water storage tank.
3. August 2013 WWN: Quick response codes (QRCs) for first aid; all hazards: drought.
4. November 2013 WWN: alternate power 10 States Standards; all hazards: derecho strong winds storm.

VIII. Technology/Internet

The following is the universal resource locator (URL) http://www.michigan.gov/deq/0,1607,7-135-3313_23413---,00.html for the ODWMA Water Security webpage. The Coordinator continually improves the web page to provide contemporary information and assistance to the regulated interests and partners.

The Coordinator, as a part of the partnership engagement process, recommends real-time monitoring of water sources, ambient waters, as well as distributed drinking water inasmuch as technology continues to improve access to parameters that offer continuous monitoring with the appropriate response protocols.

IX. Future contract efforts

Contract efforts have been a part of the Michigan water security and emergency management program in the past and a current contract is in effect for the performance of TTXs. However, due to both national funding elimination and State budget concerns, additional contract efforts are limited.

X. Tabletop Exercises (TTXs)

The contractor performed TTXs at 67 systems with the Coordinator attending a number of the TTXs. Participant feedback sheets and exercise summaries were prepared for each TTX.

Tabletop Exercises have been performed in 2013 as follows:

1. Westland 3/7/13
2. E. Lansing Meridian 3/12/13

3. Ann Arbor DW 3/13/13
4. Taylor 3/18/13
5. Troy 3/19/13
6. Waterford 3/21/13
7. Dearborn 3/22/13\
8. Clinton Twp 3/26/13
9. Canton Twp 3/27/13
10. Monroe 4/3/13
11. Auburn Hills 4/11/13
12. Chesterfield 4/16/13
13. Eastpointe 4/17/13
14. Big Rapids 4/18/13
15. Fraser 4/23/13
16. New Baltimore 4/23/13
17. Plymouth Twp 4/24/13
18. Northville Twp 4/30/13
19. Beecher – Metro 5/9/13
20. Hazel Park 5/10/13
21. Wayne Co. Downriver WWTP 5/14/13
22. Mt. Clemens 5/15/13
23. Novi 5/16/13
24. Traverse City 5/23/13
25. Jackson 5/28/13
26. Summit Twp 5/29/13
27. Pittsfield Twp 5/29/13
28. Southgate 5/30/13
29. Portage 6/10/13
30. Monroe WWTP 6/11/13
31. Grand Rapids WWTP 6/11/13
32. Jackson WWTP 6/18/13
33. Genesee County #2 WWTP 6/19/13
34. Holland WWTP 6/20/13
35. Madison Hts 6/20/13
36. Lakewood WWTP 6/26/13
37. W. Bay Co. WWTP 6/27/13
38. MHOG-Howell 6/27/13
39. Trenton WWTP 7/9/13
40. Norton Shores 7/18/13
41. Owosso WWTP 7/23/13
42. Muskegon WWTP 7/24/13
43. Adrian 7/25/13
44. Owosso 7/30/13
45. Ionia WWTP 8/7/13
46. Mt Pleasant WWTP 8/14/13
47. Coldwater 8/21/13
48. Sterling Heights 8/28/13
49. Dundee WWTP 9/10/13
50. Marquette 9/11/13
51. Marquette WWTP 9/11/13
52. Neguanee Ishpheming 9/12/13
53. Escanaba WWTP 9/12/13
54. Saline WWTP 9/17/13
55. Wixom WWTP 9/19/13
56. S. Huron Valley WWTP 9/24/13

- 57. Delhi Twp WWTP 9/25/13
- 58. Romulus 9/25/13
- 59. Mt. Pleasant 9/26/13
- 60. Saginaw Twp WWTP 10/9/13
- 61. Battle Creek WWTP 10/10/13
- 62. Northfield Twp 10/10/13
- 63. Battle Creek 10/10/13
- 64. Brighton 10/15/13
- 65. Kalamazoo 10/17/13
- 66. Orion Twp 10/23/13
- 67. Ann Arbor WWTP 10/31/13

X. Public Outreach

The Coordinator has participated in numerous public outreach opportunities as indicated in the following:

- A. 1/8/13: Cyber terrorism workshop; ODWMA managers meeting.
- B. 1/11/13: AWWA MI Section Board water system security meeting.
- C. 1/15/13: MDEQ Emergency Management Support team meeting.
- D. 1/18/13: Patriot Services TTX contractor kick off meeting.
- E. 1/24/13: Patriot Services PowerPoint development meeting.
- F. 2/6/13: Joint Expo AWWA/MWEA Water System Security Emergency Management Committee meeting.
- G. 2/7/13: ODWMA managers meeting.
- H. 2/12/13: MDEQ Emergency Management Support Team meeting.
- I. 2/19/13: Michigan Health and Hospital Association meeting about emergency water for hospitals.
- J. 2/26-27-28/13: ICS 300 conducted at Lansing Board of Water and Light.
- K. 3/4/13: Water Sector emergency management quality of life MDNR and MDEQ meeting.
- L. 4/12/13: ODWMA managers meeting.
- M. 4/29/13: MiWARN Steering Committee conference call.
- N. 5/2/13: ODWMA managers meeting.
- O. 5/21/13: AWWA MI Section Water System Security and Emergency Management Committee meeting.
- P. 6/4/13: AWWA MI Section Water Security Summit – presented on the comments from TTX participants.
- Q. 6/5/13: ODWMA managers meeting.
- R. 8/22/13: ODWMA managers meeting.
- S. 8/27/13: AWWA MI Section Water System Security and Emergency Management Committee meeting.
- T. 9/4/13: TTX contractor Patriot Services schedule/budget meeting.
- U. 9/24/13: Water Sector Drinking Water and Wastewater Emergency Management workshop conducted.

XI. Future

The Water Sector Security and Emergency Management Program is a function of funding. Existing security grant fund balances are being reviewed in order to determine the Water Sector Security and Emergency Management program and work plan. Future possible climate change legislation may provide for Water Sector security and emergency management program funding inasmuch as water is a function of the hydrologic cycle.